

FOR NATIONAL PHASE SUBMISSION

**CLAIM AMENDMENTS**

WHAT IS CLAIMED IS:

This listing of the claims will replace all prior versions, and listing, of claims in the application:

1. (Currently Amended) ~~Method A method~~ for commutating ~~the~~ at least one phase— $(P_i)$  of an electric motor— $(1)$ , in which ~~the—a~~ commutation angle— $(\alpha)$  of the at least one phase or of each phase— $(P_i)$  is continuously varied as a function of ~~the—a~~ rotary frequency— $(f)$  of ~~the—an~~ electromagnetic energizing field— $(F)$  of the electric motor— $(1)$  and/or of an adjustable variable— $(S)$  for the drive power,

~~characterized in that wherein~~ a full cycle— $(10)$  of the energizing field— $(F)$  is divided into a number— $(n)$  of zones— $(z_i)$  and the at least one phase or each phase— $(P_i)$  is commutated in accordance with a control pattern— $(12, 12')$  stored depending on these zones— $(z_i)$  with ~~the—an~~ angular extent— $(\delta_1, \delta_2)$  of at least two zones— $(z_i)$  being varied for setting the commutation angle— $(\alpha)$ .

2. (Currently Amended) ~~Method A method~~ in accordance with claim 1, ~~characterized in that wherein~~ the full cycle— $(1)$  is divided into alternating consecutive zones— $(z_1)$  of a first group and zones— $(z_m)$  of a second group, with zones— $(z_1, z_m)$  of the same group each featuring the same angular extent— $(\delta_1, \delta_2)$ .

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3. (Currently Amended) Method A method in accordance with claim 2, ~~characterized in that wherein the at least one~~ phase or each phase— $(P_i)$  is activated via an odd number— $(m)$  of consecutive zones— $(Z_i)$ .

4. (Currently Amended) A method in accordance with claim 1, wherein Method in accordance with one of the Claims 1 to 3, characterized in that the commutation angle— $(a)$  is varied between a minimum value corresponding to a low speed— $(f)$  and/or power and maximum value corresponding to a high speed— $(f)$  and/or power.

5. (Currently Amended) A method in accordance with claim 1, wherein Method in accordance with one of the Claims 1 to 4, characterized in that the characteristic variable— $(s)$  for the power  $(\Phi)$  included for adjusting the commutation angle— $(a)$  is derived on the basis of the rotary frequency— $(f)$  and an associated required value— $(f_0)$ .

6. (Currently Amended) A method in accordance with claim 1, wherein Method in accordance with one of the Claims 1 to 5, characterized in that, the phase at least one or each phase— $(P_i)$  is activated pulse-width modulated depending on the rotary frequency— $(f)$  of the energizing field— $(F)$  and/or the adjustable variable— $(s)$ .

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7. (Currently Amended) A method in accordance with  
claim 6, wherein Method in accordance with claim 6,  
~~characterized in that~~, in a low-performance range (1)  
identified by a low value of the rotary frequency (f) or  
adjustable variable (s) with a constant commutation angle (a)  
the phase or each phase (Pi) is activated pulse-width  
modulated and in a mid performance range (21) identified by a  
high value of the rotary frequency (f) or adjustable variable  
(s) the commutation angle (a) is varied.

8. (Currently Amended) A method in accordance with  
claim 1, wherein Method in accordance with one of the Claims 1  
~~to 7, characterized in that~~ the phase or each phase (Pi) is  
activated in a unipolar manner.

9. (Currently Amended) A method in accordance with  
claim 1, wherein Method in accordance with one of the Claims 1  
~~to 8, characterized in that~~ the phase or each phase (Pi) is  
activated in a bipolar manner.

10. (Currently Amended) DA device (9) for commutating  
the at least one phase (Pi) of an electric motor (1), with a  
converter (5) and a control unit (6) for the converter (5),  
~~which is embodied the control unit being operable~~ to execute  
the method in accordance with ~~one of the claims 1 to 9~~claim 1.

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11. (Currently Amended) ~~DA~~ device ~~(9)~~ in accordance with Claim 10, ~~characterized by~~ further comprising a sensor ~~(8)~~ which determines the orientation and/or the rotary frequency ~~(f)~~ of the energizing field ~~(F)~~ feeds it to the control unit ~~(6)~~ as an input variable.